

Data Acquisition Standard Operating Procedures

Florida Keys Water Watch (ID# 3000)

Last Updated: 5/6/2023

Program Summary

Water Quality monitored at 22 sites, Volunteer program

URLs

- Program -
- DDI - <https://data.florida-seacar.org/programs/details/3000>

Contacts

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Data Tables

- Data_3000A_Final
- Data_3000A_Load

Data Stored Procedures

- usp_combined_wq_wc_nut_insert_3000A

Data Acquisition Standard Operating Procedures: ProgramID 3000

Date Created: 01/28/2019

Created By: *Claude Kershaw*

Data File Path:

1. "\\forest.usf.edu\data\PDive\CAS-WI\Misc Projects\SEACAR_FDEP\Data\ID_3000_FKWaterWatch\DataToLoad\FloridaKeysWaterWatch.xlsx"

DDI URL: <http://dev.seacar.waterinstitute.usf.edu/datadiscovery/programs/details/3000>

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Procedure Overview:

1. Use SQL Server Import Export Wizard to load the file "FloridaKeysWaterWatch.xls" into table **Data_3000A_Load**.
2. Execute procedure usp_Data_3000A_Load_insert to load the data into table **Data_3000A_Final**.
3. For each unique set of coordinates, create a StationID and add the new StationID to a new column in the Data_3000A_Load table.
4. Add the Monitoring Locations from table **Data_3000A_Load** to the **SampleLocation_Point** table if they do not exist there already.
5. Add new Monitoring Locations into the **SampleLocation** table. This will generate a LocationID for each Monitoring Location.
6. Update the **SampleLocation_Point** and **SampleLocation_Line** table with the LocationID generated in the **SampleLocation** table. Run procedure usp_SampleLocation_Point_update to do this.
7. Update the LocationID column in table **Data_3000A_Final** with the LocationID in the **SampleLocation** table. Join on the [StationID] column in **Data_3000A_Final** and the ProgramLocationID column in **SampleLocation**.

Data Tables

1. Data_3000A_Load
2. Data_3000A_Final

Data Stored Procedures

1. usp_Data_3000A_Load_insert

2. usp_SampleLocation_Point_update

GIS Procedures

1. The Monitoring Location information is found in the table **Data_3000A_Load**.
2. Complete steps 3 through 7 in the “Procedure Overview” section of this document.

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_wq_wc_nut_insert_3000A]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;
```

```
-- Constants - PLEASE SET NOW!!
```

```
DECLARE @dataLoadCode varchar(10) = '3000A';
DECLARE @combinedTable varchar(50) = 'Combined_WQ_WC_NUT';
DECLARE @ParameterID int;
DECLARE @TotalRows int;
```

```
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```

```
-- Setup data load
```

```
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;
```

```
SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
```

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```
-- Insert data
```

```
SET @TotalRows = 0
Set @ParameterID = 3-- Water Temperature
```

```
INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
```

```
SELECT @programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('deg C', 'deg C', a.water_temp), NULL, GETDATE()
FROM Data_3000A_Final a
Where a.water_temp is not null
and a.LocationID is not null
```

```
SET @TotalRows = @TotalRows + @@ROWCOUNT
```

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```

```
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @TotalRows,
@LastUpdateBy = @runBy
```

```
-- Insert data
```

```
SET @TotalRows = 0
Set @ParameterID = 7-- Turbidity
```

```
INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
```

```
SELECT @programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('NTU', 'NTU', a.Turbidity), NULL, GETDATE()
FROM Data_3000A_Final a
Where a.Turbidity is not null
and a.LocationID is not null
```

```
SET @TotalRows = @TotalRows + @@ROWCOUNT
```

```
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```

```
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @TotalRows,
@LastUpdateBy = @runBy
```

```

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-- Insert data
SET @TotalRows = 0
Set @ParameterID = 11-- Secchi Depth

INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
SELECT@programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('cm', 'm', a.Secchi_Disk), NULL, GETDATE()
FROMData_3000A_Final a
Wherea.Secchi_Disk is not null
anda.LocationID is not null

SET @Total Rows = @Total Rows + @@ROWCOUNT
ÿ
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @Total Rows,
@LastUpdateBy = @runBy

-- Insert data
SET @TotalRows = 0
Set @ParameterID = 2-- Salinity

INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
SELECT@programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('ppt', 'ppt', a.Salinity), NULL, GETDATE()
FROMData_3000A_Final a
Wherea.Salinity is not null
anda.LocationID is not null

SET @Total Rows = @Total Rows + @@ROWCOUNT
ÿ
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @Total Rows,
@LastUpdateBy = @runBy

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-- Insert data
SET @TotalRows = 0
Set @ParameterID = 4-- pH

INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
SELECT@programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('', '', a.ph), NULL, GETDATE()
FROMData_3000A_Final a
Wherea.pH is not null
anda.LocationID is not null

SET @Total Rows = @Total Rows + @@ROWCOUNT
ÿ
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @Total Rows,
@LastUpdateBy = @runBy

-- Insert data
SET @TotalRows = 0
Set @ParameterID = 20-- P04

```

```

INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
SELECT@programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('', '', a.Orthophosphate), NULL, GETDATE()
FROMData_3000A_Final a
Wherea.Orthophosphate is not null
anda.LocationID is not null

SET @Total Rows = @Total Rows + @@ROWCOUNT
ÿ
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @Total Rows,
@LastUpdateBy = @runBy

-- Insert data
SET @Total Rows = 0
Set @ParameterID = 1-- Dissolved Ox

INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
SELECT@programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('mg/L', 'mg/L', a.Dissolved_Oxygen), NULL, GETDATE()
FROMData_3000A_Final a
Wherea.Dissolved_Oxygen is not null
anda.LocationID is not null

SET @Total Rows = @Total Rows + @@ROWCOUNT
ÿ
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @Total Rows,
@LastUpdateBy = @runBy

-- Insert data
SET @Total Rows = 0
Set @ParameterID = 6-- Sp. Cond.

INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID,
Activity_Start_Date_Time, ACTIVITY_DEPTH, Activity_Depth_Unit, RELATIVE_DEPTH, Org_Result_Value,
VALUE_QUALIFIER, DateAdded)
SELECT@programID, @dataStreamID, @ParameterID, a.LocationID, CAST(a.event_date as Date), NULL,
NULL, 'Surface', dbo.[udf_convert_units]('mS/cm', 'mS/cm', a.Conductivity), NULL, GETDATE()
FROMData_3000A_Final a
Wherea.Conductivity is not null
anda.LocationID is not null

SET @Total Rows = @Total Rows + @@ROWCOUNT
ÿ
exec usp_combined_data_tracking_insert @parameterID = @ParameterID, @ProgramID = @programID,
@dataStreamID = @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @Total Rows,
@LastUpdateBy = @runBy

/*
SELECT *
FROM Combined_WQ_WC_NUT

```

```
SELECT *  
FROM Data_3000A_Final
```

```
SELECT *  
FROM Combined_Parameters a  
join Indicator b on a.IndicatorID = b.IndicatorID  
where b.Habitat = 'Water Column'  
and b.IndicatorName <> 'Nekton'
```

```
SELECT *  
FROM DataStreamProcedure  
WHERE ProgramID = 3000
```

```
SELECT *  
FROM Combined_Data_tracking  
where programid = 3000  
and datastreamID = 1240
```

```
exec usp_delete_combined 137, 'Combined_WQ_WC_NUT'  
*/
```

```
END
```

```
GO
```